

PATENT SPECIFICATION



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240,431

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COMPLETE SPECIFICATION.

Improvements in Liquid Level Indicators.

We, PIERRE KRUMM, of 4, Villa Logerais, Bois-Colombes (Seine), France, and EDOUARD SEIGNOL, of 17, rue Duret, Paris, France, both citizens of the French Republic, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in liquid level indicators for tanks or reservoirs, and is especially adapted for use with automobiles.

A liquid level indicator constructed according to this invention consists in the combination of a float, a drum actuated directly by a spring, as distinct from a spring barrel having teeth in mesh with a pinion on the drum, and a flexible strip carried by the drum and connected directly to the float, i.e. without passing over guide pulleys.

In an indicator constructed according to the invention, friction is minimised and consequently the indications are more accurate and, moreover, a lighter float can be employed than in hitherto known constructions of this kind.

In the accompanying drawing which illustrates the invention, Figure 1 is a sectional elevation and Figure 2 a part front elevation.

1 is a tube connected to a screwed cap 2 on a tank 3 containing a liquid, the level of which is to be indicated.

Located within the interior of the tube 1 is a float 4 connected by a flexible strip 8 to a drum or barrel 5, which can turn about a spindle 6 mounted in a casing 7 which is fast on the cap 2. A spring (not shown) is provided in the interior of the drum or barrel 5 in such a way as to cause the drum to turn in the direction indicated by the arrow shown in Figure 1; the flexible strip 8 is provided with indications, for example,

numbers, as shown in Figure 2, which are visible through a window 9 formed in the casing 7. The spring of the drum always maintains the flexible strip 8.

In operation, when the level of the liquid in the tank 3 falls, the float 4 unwinds the flexible strip 8 from the drum 5 which is turned against the action of its spring, whilst when the float 4 rises the drum 5 is turned by its spring so as to wind in the flexible strip 8.

Obviously the weight of the float and the tension of the spring inside the drum must be so arranged as to permit the displacements indicated above.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. In a liquid level indicator, the combination of a float, a drum actuated directly by a spring, and a flexible strip directly connecting the float to the drum, substantially as described.

2. In a liquid level indicator, the combination of a filler cap or the like, a float slidably mounted in a guide, a casing on said cap, a drum actuated directly by a spring, rotatably mounted in said casing, and a flexible strip wound on the said drum and directly connected to the said float, the said flexible strip having a scale which is visible through a window in the said casing, substantially as described.

3. A liquid level indicator, substantially as described with reference to the accompanying drawing.

Dated this 3rd day of September, 1925.

CARPMÆLS & RANSFORD,

Agents for Applicants,

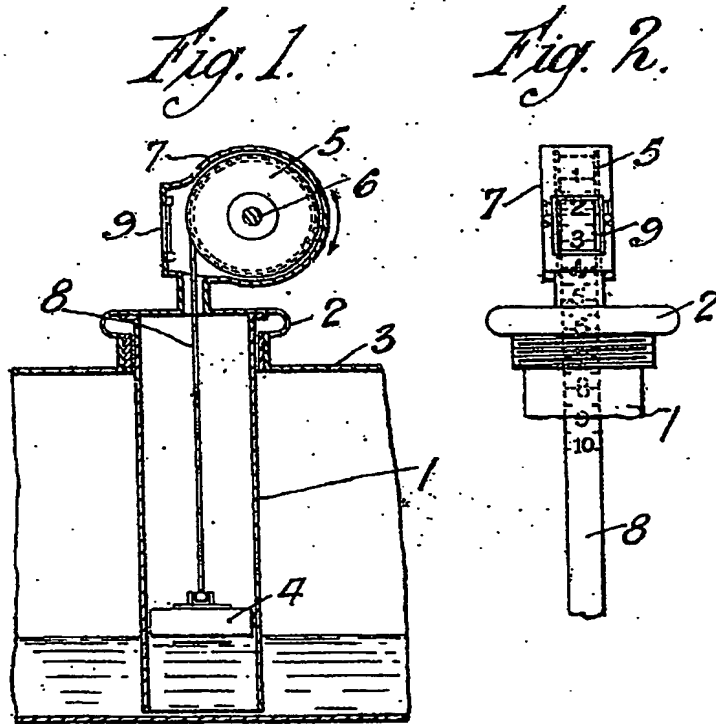
24, Southampton Buildings, London, W.C. 2.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1926.

[Price 1/-]

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[This Drawing is a full-size reproduction of the Original.]



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